

DOCKET NO. UTAD-0004

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

A. Dean Sherry et al

Serial No.: N/A

Filed: Herewith

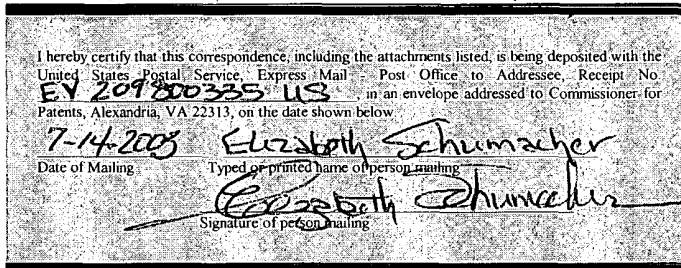
For: SELECTION OF COORDINATION GEOMETRY TO ADJUST WATER
EXCHANGE RATES OF PARAMAGNETIC METAL ION-BASED
MACROCYCLIC CONTRAST AGENTS

Group No.: N/A

Examiner: N/A

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:



INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, Applicant submits this statement.

This submittal is made in accordance with 37 C.F.R. §§ 1.97 and 1.98 and § 609 of the Manual of Patent Examining Procedure. The patents, publications and other information herein are listed below and on the attached Form PTO-1449. Copies of the listed references are submitted herewith.

<u>U.S. Patent No.</u>	<u>Inventor</u>	<u>Date</u>
5,428,155	Sherry et al	June 27, 1995

References

Zoltan Kovacs and A. Dean Sherry, "pH-Controlled Selective Protection of Polyaza Macrocycles", *Synthesis*, July 1997, Pg. 761-763.

Shanrong Zhang, Patrick Winter, Kuangcong Wu and A. Dean Sherry, "A Novel Europium (III)-Based MRI Contrast Agent", 2001 *J. Am. Chem. Soc.*, Pg. 1517-1518.

Shanrong Zhang, Kuangcong Wu, Michael C. Biewer and A. Dean Sherry, "¹H and ¹⁷O NMR Detection of a Lanthanide-Bound Water Molecule at Ambient Temperatures in Pure Water as Solvent", 2001 *Inorganic Chemistry*, Vol. 40, No. 17, Pg. 4284-4290.

Min K. Moi and Claude F. Meares, "The Peptide Way to Macrocyclic Bifunctional Chelating Agents: Synthesis of 2-(p-Nitrobenzyl)-1, 4, 7, 10-tetraazacyclododecane-N,N',N'', N'''-tetraacetic Acid and Study of its Yttrium(III) Complex", 1988 *J. Am. Chem. Soc.*, 110, Pg. 6266-6267.

Mark Woods, Silvio Aime, Mauro Botta, Judith A. K. Howard, Janet M. Moloney, Michel Navet, David Parker, Marc Port, and Olivier Rousseaux, "Correlation of Water Exchange Rate with Isomeric Composition in Diastereoisomeric Gadolinium Complexes of Tetra(carboxyethyl) dota and Related Macrocyclic Ligands", 2000 *J. Am. Chem. Soc.*, Vol. 122, No. 40, Pg. 9781-9792.

Rachel S. Dickens, Judith A. K. Howard, Christine L. Maupin, Janet M. Moloney, David Parker, Robert D. Peacock, James P. Riehl, and Giuliano Siligardi, "Ground and Excited State Chiroptical Properties of Enantiopure Macrocyclic Tetranaphthyl Lanthanide Complexes: Controlled Modulation of the Frequency and Polarisation of Emitted Light", 1998 *New J. Chem.*, Pg. 891-899.

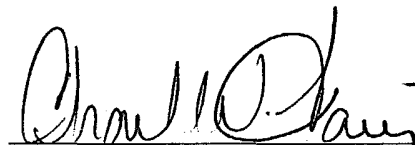
Ramachandran S. Ranganathan, Natarajan Raju, Helen Fan, Xun Zhang, Michael F. Tweedle, Jean F. Desreux, and Vincent Jacques, "Polymethylated DOTA Ligands. 2. Synthesis of Rigidified Lanthanide Chelates and Studies on the Effect of Alkyl Substitution on Conformational Mobility and Relaxivity", *Inorganic Chemistry*, Vol. 41, No. 25, 2002 American Chemical Society, Pg. 6856-6866.

Vinciane Comblin, Dominique Gilsoul, Martine Hermann, Valerie Humblet, Vincent Jacques, Mohammed Mesbahi, Christophe Sauvage, and Jean F. Desreux," Designing New MRI Contrast Agents: A Coordination Chemistry Challenge", Coordination Chemistry Reviews 185-186, (1999), Pg. 451-470.

Applicant hereby expressly reserves the right to swear behind the effective dates of any of the above Patents and to question the relevance and materiality of the Patents and Publications listed herein, in whole, in part, or in combination, subsequent to filing this Information Disclosure Statement. The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 08-2395.

Respectfully submitted,

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STATEMENT BY APPLICANT**

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Sheet

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Application Number	N/A
Filing Date	Herewith
First Named Inventor	A. Dean Sherry, et al
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	UTAD-0004

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,428,155	06/27/1995	Sherry et al	
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FOREIGN PATENT DOCUMENTS

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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First Named Inventor	A. Dean Sherry, et al
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	UTAD-0004

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ZOLTAN KOVACS and A. DEAN SHERRY, pH-Controlled Selective Protection of Polyaza Macrocycles, Synthesis, July 1997, pg. 761-763.	
		SHANRONG ZHANG, PATRICK WINTER, KUANGCONG WU and A. DEAN SHERRY, A Novel Europium (III)-Based MRI Contrast Agent, 2001 J. Am. Chem. Soc., Pgs. 1517-1518.	
		SHANRONG ZHANG, KUANGCONG WU, MICHAEL C. BIEWER and A. DEAN SHERRY, 1H and 17O NMR Detection of a Lanthanide-Bound Water Molecule at Ambient Temperatures in Pure Water as Solvent, Inorganic Chemistry, Vol. 40, No. 17, 2001, Pg. 4284-4290.	
		MIN K. MOI and CLAUDE F. MEARES, The Peptide Way to Macrocyclic Bifunctional Chelating Agents: Synthesis of 2-(p-Nitrobenzyl)-1, 4, 7, 10-tetraazacyclododecane-N,N',N'', N'''-tetraacetic Acid and Study of its Yttrium(III) Complex, J. Am. Chem. Soc., 110, 1988, Pg. 6266-6267.	
		MARK WOODS, SILVIO AIME, MAURO BOTTA, JUDITH A. K. HOWARD, JANET M. MOLONEY, MICHEL NAVET, DAVID PARKER, MARC PORT, and OLIVIER ROUSSEAU, Correlation of Water Exchange Rate with Isomeric Composition in Diastereoisomeric Gadolinium Complexes of Tetra (carboxyethyl) dota and Related Macrocyclic Ligands, J. Am. Chem. Soc., Vol. 122, No. 40, 2000, Pg. 9781-9792.	
		RACHEL S. DICKENS, JUDITH A. K. HOWARD, CHRISTINE L. MAUPIN, JANET M. MOLONEY, DAVID PARKER, ROBERT D. PEACOCK, JAMES P. RIEHL, and GIULIANO SILIGARDI, Ground and Excited State Chiroptical Properties of Enantiopure Macrocyclic Tetranaphthyl Lanthanide Complexes: Controlled Modulation of the Frequency and Polarisation of Emitted Light, New J. Chem., 1998, Pg. 891-899.	
		RAMACHANDRAN S. RANGANATHAN, NATARAJAN RAJU, HELEN FAN, XUN ZHANG, MICHAEL F. TWEEDLE, JEAN F. DESREUX, and VINCENT JACQUES, Polymethylated DOTA Ligands. 2. Synthesis of Rigidified Lanthanide Chelates and Studies on the Effect of Alkyl Substitution on Conformational Mobility and Relaxivity, Inorganic Chemistry, Vol. 41, No. 25, 2002, Pg. 6856-6866.	
		VINCIANE COMBLIN, DOMINIQUE GILSOUL, MARTINE HERMANN, VALERIE HUMBLET, VINCENT JACQUES, MOHAMMED MESBAHI, CHRISTOPHE SAUVAGE, and JEAN F. DESREUX, Designing New MRI Contrast Agents: A Coordination Chemistry Challenge, Coordination Chemistry Reviews 185-186, 1999, Pg. 451-470.	

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